

PORTFOLIO

EK⚡*industry*

WE CREATE SAFETY
IN THE WORLD OF INDUSTRY

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ABOUT US

When my husband founded EK-INDUSTRY in 2010, his wish was to create a flexibly functioning business that is able to provide the customer with a turnkey offer of products and services.

The company initially focused on the distribution of electrical components for elevators, cranes and general automation. Through natural development and based on customer demand, in addition to product distribution, we also began to focus on complete legislation for machinery and robotic workplaces, according to applicable standards and guidelines.

Repairs of machinery, mainly in the field of supplementing machine safety. Technology programming and production efficiency measurement.

Since 2012, we have increasingly focused on the already mentioned area of machine and equipment safety. Today, we have a stable technical team that passed the TÜV Rheinland tests in 2018, which clearly demonstrates its technical and legislative qualities.

Thanks to a long time in the industry, we can offer rich references in areas such as the food industry, water treatment plants, automotive, production of cable harnesses, waste compression, modification of robotic workplaces, replacement of truck weighing systems, technology development and research systems, plastic compression, and many others.

In 2015, we expanded to Slovakia.

Currently, the company is divided into three divisions, which together create a comprehensive tailor-made solution for the customer!

In 2020, we became members of the JIC (South Moravian Innovation Center). We believe that this cooperation will take us a step further. The people at JIC say their mission is to support development in business that can change the world. And that's what we at our company would like, because we're entering the next decade of business and that's a challenge...



Andrea Pidrová
Public relations

PROJECT DEPARTMENT



CE

WE WILL GUIDE YOU THROUGH THE COMPLETE LEGISLATIVE PROCESS

- we will develop an analysis and risk assessment
- we will create complete documentation
- we will prepare an EC declaration and a CE label for machinery



WE PROGRAM TAILOR-MADE TECHNOLOGIES

- we modernize outdated control systems
- we program new technologies
- we pay attention to cyber security



WE COMPLETELY IMPLEMENT TURNKEY MEASURES!

- we will present the design as a 3D visualization
- we will add safety elements or make A new equipment
- we perform mechanical, hydraulic, electrical assembly work
- we measure controls



WE PROFESSIONALLY TRAIN EMPLOYEES

- in the area of legislative requirements
- we train employees on newly created instructions for machinery



WE MEASURE PRODUCTION EFFICIENCY

- we analyze the energy consumption of production
- we set up efficient production of products, implement the proposed measures

YOU ARE **SAFE** WITH US!

PROJECT DEPARTMENT

EK-INDUSTRY, s.r.o.

-  Mírová 493
679 04 Adamov, ČR
-  +420 733 127 699
-  projekty@ek-industry.cz

EK-INDUSTRY SK, s.r.o.

-  Keratsínske námestie 1
080 01 Prešov, SR
-  +421 948 866 869
-  info@ek-industry.sk

LEGISLATION

On the basis of European directives, we prepare risk assessments for companies across industries so that machinery exactly meets their requirements. Risk assessment is directly required by the Engineering Directive (2006/42/EC), which is implemented into the Czech legal order by Government Regulation 176/2008 Coll.

Creating only a risk analysis does not fulfil the legislative requirements, therefore we automatically create the already mentioned risk assessment for our customers.

The services we provide in the field of machinery legislation:

- as part of the risk assessment, we will develop a complete proposal for the security of the machinery, leading to the correction of the security of the machinery
- we are dedicated to the safety assessment of NEW equipment according to CSN EN ISO 12100
- but also the safety assessment of OPERATIONAL equipment according to NV 378/2001 Coll.
- we will prepare instructions, diagrams, drawing documentation, local operating safety regulations
- we will professionally train personnel according to the instructions and applicable legislation
- after implementing the proposed measures, we will prepare an EC declaration of conformity and prepare a CE label

We are preparing a risk assessment for robotic workplaces:

The number and types of hazards are directly related to the nature of the automated process and the complexity of the installation. The risks associated with these dangers vary according to the type and parameters of the robot used and its purpose, or according to the way it is installed and programmed. From the point of view of the legislation, robotic workplaces are different from ordinary machinery.

The list of significant hazards for robots and robot systems is the result of hazard identification and risk assessment as described in the standard CSN EN ISO 10218-1: 2012 Robots and robotic equipment - Safety requirements for industrial robots - Part 1: Robots.



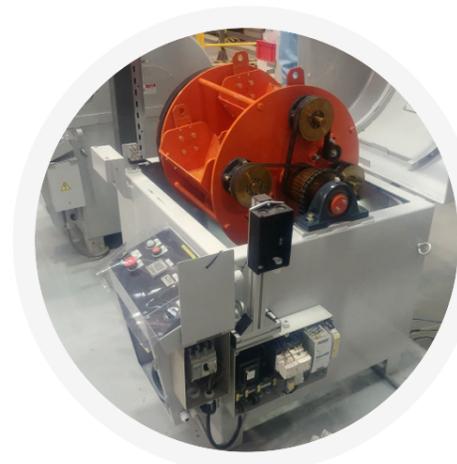
RECONSTRUCTION OF THE BRIDGE PRESS

Equipment purchased from a country outside the EU, which was found to have serious deficiencies when taken over in the Czech Republic. So I was invited to bring the machine into compliance with the currently valid standards. This order included both risk assessment and operating instructions, as well as mechanical and electrical security of the machine, replacement of the distribution box and modification of the electrical installation, and it was also necessary to add safety valves to the hydraulic circuit. We handed over the device as ready for operation in the EU, meeting all requirements.



ROTARY AND LINEAR MIXERS IN NORTH MACEDONIA

For our international partner in North Macedonia, we ensured the documentation of the current state of the equipment, together with the identification of how the equipment works for the purpose of creating a risk assessment with a proposal of measures for the safe use of the equipment. The result was the preparation of a risk assessment in a foreign language directly on site with the customer in a way that was safe and at the same time did not limit production in any way. An offer is currently being prepared for the implementation of the proposed measures, which we are also ready to implement for our partner.



PASS-THROUGH PRESSES, CENTRIFUGES AND GRINDING MACHINES FROM JAPAN

For the customer, who was pressed by the deadline for starting operations, it was necessary to ensure a risk assessment in a very short time. So the whole process took place directly at the customer already during the first inspection, which was really time-consuming. On this order, we communicated very closely with the technical department and flexibly clarified all the measures that must be carried out on the machine. The result was a risk assessment on five different machines in a very short time, so the customer could start production on time.

STAFF TRAINING

We help great experts with the implementation of standards and regulations precisely tailored to their operations. We professionally train workers and operators on the newly created operating instructions, also so that they can navigate the legislation and understand why it is necessary to have protective elements on machinery and what they are used for. Our trainers are recognized experts in the safety of machinery, their expertise is backed by many years of experience in the field, as well as exams: Functional Safety Technician (TÜV Rheinland, certificate Machinery).

We prepare training tailor-made for the customer, it is possible to go through all the offered circuits, or choose only one:

- legislative requirements for new machinery put on the market or put into operation according to Directive 2006/42/EC of the European Parliament and of the Council (NV CR No. 176 /2008 Coll., NV SR No. 436/2008 Coll.)
- legislative requirements for operated machinery according to NV CR No. 378/2001 Coll. and NV SR No. 392/2006 Coll.
- new engineering directive - upcoming changes that you should prepare for

PROGRAMMING

We create customized industrial control software. We will comprehensively map your requirements and needs. We will then design a software solution perfectly covering all needs.

There are two variants of development and programming of control systems with which we work:

- we will completely modernize the current technology and propose the best solution for the existing system
- we will create and program a new control system, we will create a complete technology

Whether you need to create special software for processing and preparing production data, or just start and turn off the developed hardware, or complete control technology, we will create an easy and intuitive solution for you.

Our control systems are unique!

Our advantage lies in the creation of a study to evaluate the state of management and control of technological units. The aim is to propose a simplification of both system management and control, using the least possible costs to ensure the greatest possible efficiency, simplicity of control, service and maintenance of the technology.

What is the output?

We create management visualization in one unified design. When drawing the visualization, we pay attention to the requirements of the operator and the requirements of technology and technologists. Each display is therefore clear and understandable.

What does the management software designed by us enable?

- preparation of data for production
- control of machines and equipment
- reading and visualization of production equipment results
- management of access rights to individual functions
- data backup
- reporting of results and statistics

What other services can we do for you?

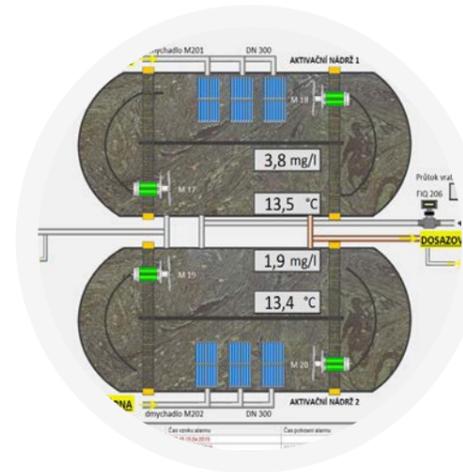
- modernization of old control systems
- replacement of power elements, converters, servo converters
- design, modernization or implementation of industrial communication software
- visualization, unique design, designed exactly according to customer requirements
- cyber security

What do we work with?

- Allen-Bradley, Siemens, IDEC, Mitsubishi, Omron, Wago

For which segment do we program control systems?

We develop control systems for customers across industries.



PROGRAMMING THE ENTIRE TECHNOLOGY OF WASTEWATER CLEANERS

For the operator, new technology was added to the WWTP, when the original control and visualization system was not satisfactory, therefore new control systems and visualization were added to the control room. The result is a new visualization of the WWTP according to the customer's ideas and a new efficient management of the entire treatment plant.

ADDITION OF THE SAFETY CONTROL SYSTEM TO THE OPERATING CNC EQUIPMENT AND ADDITION OF SAFETY COMPONENTS

The device was assessed according to NV 378/2001 Coll., according to which we added safety components such as locks, door sensors and contactors, as well as safety programmable relays. The safety relay program was programmed as a parent system of the original CNC control, which could not be modified. The result is a functional and safe CNC machining centre according to the requirements of NV 378 and valid standards.

REPLACEMENT OF CONTROLS AT WASTEWATER PUMPING STATIONS

In this project, we replaced the original outdated control system with a new one. In addition, a control room visualization was added according to the customer's requirements. Data is transmitted to the control room using GSM modules of the mobile network. This transmission has been tested for 1 year and we can say that it is very reliable. The result is functional management of OV filling stations with data transfer and new visualization in the control room.

IMPLEMENTATION OF KEY MEASURES

We will provide you with a complete implementation resulting from the prepared risk assessment. If you are an operator of machinery, you are obliged to ensure compliance of the equipment, production lines or production technologies with valid regulations and thus ensure the safe operation of the machinery you operate or supply.

The safety of machinery is mainly covered by Directive 2006/42/EC, but also by other regulations, directly or indirectly, depending on the type of technology. The goal of these normative and binding regulations is the safety and protection of your employees at work, but also the protection of property.

As part of the implementation of the proposed measures, we provide:

- 3D model of proposed modifications
- addition of safety elements to machinery
- mechanical modifications of any kind
- protective fencing of machinery, workplace
- hydraulics
- creation of diagrams, if they do not exist (electrical, pneumatic, etc.)
- electrical assembly work
- programming work (Allen-Bradley, Siemens, Mitsubishi, IDEC, OMRON)
- legislative requirements (instructions for use, technical drawings, etc.)
- complete production of new equipment
- minor construction work and complete project implementation
- measuring the energy efficiency of the product

When is convenient to contact us?

- if you make structural modifications to an existing machine
- if you make substantial changes to the machinery
- if you buy a new machine from outside the EU
- if an accident has occurred at your workplace and you need to secure the machinery



PRODUCTION OF A DEMO PANEL FOR A CAR

This project consisted in the design and production of a demo-panel for educational purposes in a car factory in Slovakia. The result is a product with an EU declaration of conformity and other documentation (risk assessment, instructions for use, diagrams, revisions, etc.)

SUPPLEMENT OF COMPONENTS

IN THE CABINET, REPLACEMENT OF SERVO FOR THE PRODUCTION LINE

On this order, we added electrical components such as frequency converters, UPS, power supplies, servo converters. Replacement of four large servo motors on the line with new ones with their connection to the switchboard and new cabling. The result is a functional line at the customer with a renewed part of the components and a statement issued by the supplier about an insignificant change.



MANUFACTURE OF THE CABINET, SUPPLEMENT OF SECURITY ON THE PACKAGING MACHINE

We designed and manufactured a new switchboard for the customer. We also added new motors, sensors and safety components. Other work also included replacing all the wiring and powering the motors. We supplemented the deficiencies from the previously prepared risk assessment. The result is a functional and safe device that meets all legislative requirements.



MEASURING PRODUCTION EFFICIENCY

Measuring the energy intensity of production or emissions in industry and their subsequent reduction is currently a big topic. More and more companies are making cooperation with suppliers conditional on the level of production burden on the environment and the final footprint of the given product.

If you want to measure with quality and administration, it is necessary to find a concept of measurement using technology, data collection must be evaluated correctly. It is only on this basis that it is possible to propose a solution to reduce the carbon footprint.

What we will help you with when measuring and reducing your carbon footprint:

- we will analyze the energy intensity of your production
- we will recommend a measurement system
- we will implement technology and program a data collection system
- we will recommend tailored products to reduce emissions

DISTRIBUTION



AUTOMATION

- limit switches and micro switches
- main switches
- control elements
- cam switches



LED SHAFT LIGHTING

- LED lighting according to EN 81-20:
- three types of design
 - certified lighting
 - supported by revision techniques



CRANE APPLICATIONS

- pendant control
- limit switches
- overhead line and power supply
- cable trays



RADIO REMOTE CONTROLS

- push-button and console for:
- all types of cranes
 - mobile applications (conveyors, mobile cranes and others)



ELEVATOR APPLICATIONS

- elevator components according to EN 81-20:
- on the roof of the elevator cage
 - under the elevator cage
 - in the recess
 - in the elevator shaft



SPECIAL TURNKEY SOLUTION

- we create complex solutions for customers

TRADE AND LOGISTICS DEPARTMENT

EK-INDUSTRY, s.r.o.

- Nádražní 455
679 04 Adamov, ČR
- +420 515 532 161
- info@ek-industry.cz

EK-INDUSTRY SK, s.r.o.

- Keratsínske námestie 1
080 01 Prešov, SR
- +421 948 866 869
- info@ek-industry.sk

BRAND REPRESENTATION





Eduard Pidra
Business Manager
+420 724 106 651
eduard.pidra@ek-industry.cz



Bc. Andrea Pidrová, MBA
Economic manager and PR
+420 724 621 130
andrea.pidrova@ek-industry.cz



Michal Hájek
Branch Manager
+420 734 501 867
michal.hajek@ek-industry.cz



David Kuklínek
Logistics team leader
+420 734 241 220
david.kuklinek@ek-industry.cz



Mgr. Igor Bychler
Commercial - technical repre. of CZ
+420 734 245 560
igor.bychler@ek-industry.cz



Karel Vácha
Logistician / seller
+420 731 650 329
karel.vacha@ek-industry.cz



Ing. Veronika Hasarová
Commercial - technical repre. of SK
+421 948 866 869
distribucia@ek-industry.sk



Monika Belatková
Accountant
+420 733 127 730
faktury@ek-industry.cz

Why cooperate with us?

During our time in the industry, we have clearly defined our values, which we will never compromise on. We believe that our philosophy will appeal to you as well.

Our team now includes **13 regular employees and dozens of external experts.**
We guarantee our work with the **ISO 9001:2016 certificate and Functional Safety Technician certificates (TÜV Rheinland, Machinery certificate).**

Our work is covered by liability insurance in the amount of 1 million EURO.



Top quality service



Tailor-made technical solutions



Customer first



Certified products



Ing. Jakub Steklý
Project manager
+420 733 127 699
jakub.stekly@ek-industry.cz



Pavel Kaňka
Lead Technician
+420 739 027 111
pavel.kanka@ek-industry.cz



Dalibor Peša
Commercial and technical repre. projects
+420 770 172 211
dalibor.pesa@ek-industry.cz



Vojtěch Polícar
Buyer / Project Coordinator
+420 733 127 719
vojtech.policar@ek-industry.cz



Radovan Pidra
Technician
+420 777 942 607
radovan.pidra@ek-industry.cz



WWW.EK-INDUSTRY.CZ
WWW.EK-INDUSTRY.SK
WWW.POSOUZENIRIZIK.CZ

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**TRADE AND LOGISTICS DEPARTMENT
OF THE CZECH REPUBLIC**

EK-INDUSTRY, s.r.o.

 Nádražní 455
679 04 Adamov, ČR

 +420 515 532 161

 info@ek-industry.cz

PROJECT DEPARTMENT

EK-INDUSTRY, s.r.o.

 Mírová 493
679 04 Adamov, ČR

 +420 733 127 699

 projekty@ek-industry.cz

**TRADE AND LOGISTICS
DEPARTMENT OF SLOVAKIA**

EK-INDUSTRY SK, s.r.o.

 Keratsínske námestie 1
080 01 Prešov, SR

 +421 948 866 869

 info@ek-industry.sk